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論文審査担当者	主査： 鈴木 貞夫 副査： 齋藤 伸治，杉浦 真弓

To investigate whether the polymorphisms at the promoter or 5' untranslated region of annexin A5 gene (*ANXA5*) influence further miscarriage. We designed case-control study and nested case-control study about 264 patients with 2-9 recurrent pregnancy loss (RPL) and 195 fertile controls.

Main outcome is the frequency of six SNPs of the *ANXA5* gene in RPL patients versus control subjects, subsequent live birth rate between with and without risk alleles in RPL patients. Our case-control study demonstrated the minor allele was significantly more frequent in PRL patients than controls for SNP5 (rs 1050606). From our cohort study, live birth rate of patients with and without risk alleles of SNP5 were 84.0 % and 84.3 %, respectively after excluding cases with abnormal embryonic karyotype, with no significant difference. The variations with the *ANXA5* gene upstream region, especially SNP5 were confirmed to be risk factors of RPL. However, presence/absence of the *ANXA5* risk allele did not have any predictive effect for subsequent pregnancy outcome. And this was the first study indicating the influence of *ANXA5* SNP5 for further pregnancy outcome.